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# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 03282276  
PUBLICATION DATE : 12-12-91

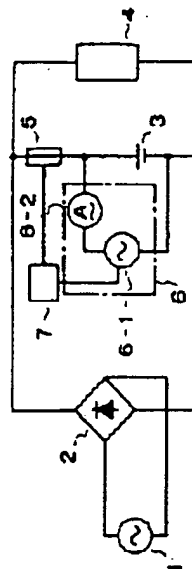
APPLICATION DATE : 29-03-90  
APPLICATION NUMBER : 02084534

APPLICANT : YUASA CORP;

INVENTOR : YAMANAKA MASAO;

INT.CL. : G01R 31/36

TITLE : METHOD FOR JUDGING LIFE OF  
LEAD STORAGE BATTERY



ABSTRACT : PURPOSE: To judge life by measuring internal impedance by measuring the ripple voltage due to the ripple current contained in the charge current of the lead storage battery connected in a floating charge state through a rectifier.

CONSTITUTION: In a system for the floating charge of a lead storage battery from a commercial power supply 1 through a rectifier 2, a ripple voltage detector 5 is inserted in the charge path of the lead storage battery 3 and the ripple voltage measured by the ripple voltage detector 5 and the voltage measured by an internal impedance measuring device 6 are inputted to an adder 7 to calculate added voltage and the value calculated by dividing this added voltage by the measured current flowing when the measured voltage of the internal impedance measuring device 6 is applied is displayed as an internal impedance. By this method, the internal impedance in a floating charge state can be accurately measured.

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